

ISO 7148-2:2012-10 (E)

Plain bearings - Testing of the tribological behaviour of bearing materials - Part 2: Testing of polymer-based bearing materials

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	1
3	Symbols, units and abbreviated terms	1
4	Special features for the tribological testing of polymer-based materials	2
5	Test methods	5
5.1	General	5
5.2	Test method A -- Pin-on-disc	5
5.3	Test method B -- Block (or pin)-on-ring	6
5.4	Test method C -- Plain bearing-on-shaft	7
5.5	Test method D -- Sphere-on-prism	7
5.6	Test method E -- Rotation under thrust load	8
6	Test specimens	9
6.1	Data required	9
6.2	Polymer-based plain bearing materials (pl)	9
6.3	Materials of mating component	9
6.4	Dimensions of test specimens	9
6.5	Preparation of the test specimens	14
7	Test methods and test equipment	15
7.1	General	15
7.2	Test method A -- Pin-on-disc	15
7.3	Test method B -- Block-on-ring	16
7.4	Test method C -- Plain bearing-on-shaft	16
7.5	Test method D -- Sphere-on-prism	16
7.6	Test method E -- Rotation under thrust load	17
8	Lubrication	17
8.1	General	17
8.2	Dry (dr)	18
8.3	Grease (gr)	18
8.4	Oil (oi)	18
8.5	Solid lubricant (so)	18
9	Designation	18
10	Test conditions	18
10.1	Environmental conditions	18
10.2	Mounting of the test specimens	19
10.3	Test variables	19
11	Test procedure	21
11.1	Running-in	21
11.2	Carrying out the tests	21

12	Analysis	21
12.1	General	21
12.2	Test results	22
Annex A (informative) Test report		23
Bibliography		25